

RESERVOIR STORAGE

April 2015

At the end of the month, total storage in 114 of the state’s major water supply reservoirs was at 23.24 million acre-feet*, or 74% of their total conservation storage capacity. This is 1.35 million acre-feet more than a month ago and 2.93 million acre-feet more than the storage at this time last year.

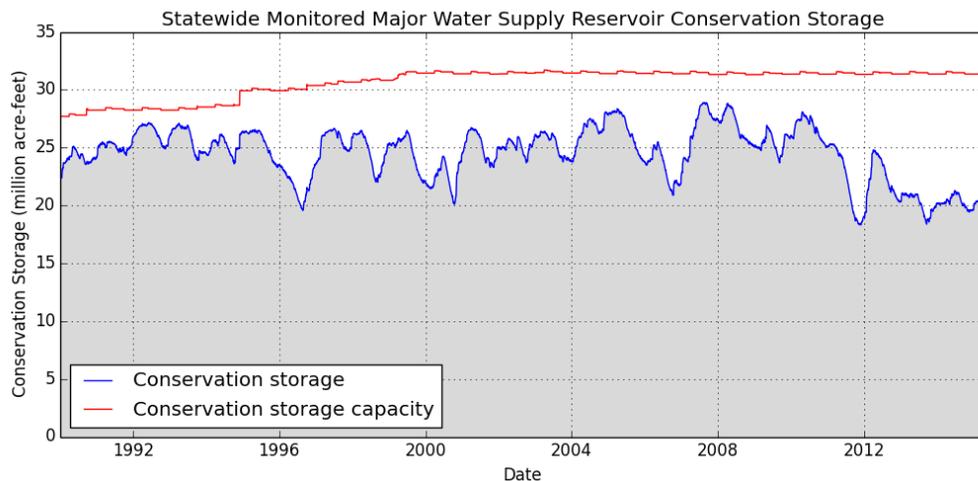
Forty-five reservoirs held 100% of conservation storage capacity. Thirteen (13) reservoirs were below 10% full: Electra (0%), O. C. Fisher (1%), Palo Duro (1%), E.V. Spence (3%), Abilene (3%), Twin Buttes (3%), Medina (4%), North Fork Buffalo Creek (4%), White River (4%), Meredith (4%), Champion Creek (6%), Mackenzie (7%), and Millers Creek (8%).

Total combined storage was greater than 70% in the North Central (82%), Trans-Pecos (80%), Upper Coast (100%) and East (100%) regions. The regions with the lowest percentage storage were the High Plains (5%) and Low Rolling regions (32%). Storage declined in 2 regions and increased in 7 regions over the past month.

Elephant Butte reservoir held 392,696 acre-feet, or 20% of storage capacity. This is 25,384 acre-feet more than a month ago.

* Only the Texas share of storage in border reservoirs is counted.

CONSERVATION STORAGE DATA FOR



Figures are based on the end of the month data at 114 major reservoirs that represent 96 percent of the total conservation storage capacity of the 188 major water supply reservoirs in Texas. Major reservoirs are defined as having a conservation storage capacity of 5,000 acre-feet or greater.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Apr		Change since end of Mar 2015		Change since end of Apr 2014		
		2015 (acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
HIGH PLAINS								
Palo Duro Reservoir	61,066	764	1	-55	-0	-1,211	-2	
Meredith, Lake (Texas)	500,000	28,008	6	80	0	28,008	6	
Meredith, Lake (Texas & Oklahoma)	779,556	28,008	4	80	0	28,008	4	
MacKenzie Reservoir	46,450	3,356	7	34	0	1,084	2	
White River Lake	29,880	1,050	4	5	0	1,050	4	
TOTAL	637,396	33,178	5	64	0	28,931	5	
LOW ROLLING PLAINS								
Greenbelt Lake	59,968	7,650	13	120	0	-573	-1	
*Electra, Lake	5,626	no data						
N. Fork Buffalo Crk Reservoir	15,400	618	4	91	1	no data		
Kemp, Lake	268,811	71,743	27	3,398	1	13,654	5	
Millers Creek Reservoir	26,768	2,133	8	141	1	-1,296	-5	
Alan Henry Reservoir	94,808	69,988	74	-175	-0	11,892	13	
Stamford, Lake	51,570	8,527	17	3,208	6	2,104	4	
J B Thomas, Lake	199,931	88,161	44	0	0	86,520	43	
Fort Phantom Hill, Lake	70,030	24,519	35	1,674	2	-3,966	-6	
Sweetwater, Lake	12,267	1,592	13	-20	-0	-688	-6	
Colorado City, Lake	30,758	6,975	23	489	2	-361	-1	
Champion Creek Reservoir	41,580	2,343	6	14	0	-328	-1	
Abilene, Lake	7,900	266	3	-2	-0	-10	-0	
Coleman, Lake	38,075	13,105	34	1,267	3	-1,162	-3	
Hords Creek Lake	8,443	3,449	41	-35	-0	1,047	12	
TOTAL	926,309	301,069	33	10,170	1	106,833	12	
NORTH CENTRAL								
Nocona, Lake (Farmers Crk)	21,444	8,759	41	1,762	8	369	2	
Hubert H Moss Lake	24,058	24,058	100	54	0	3,271	14	
Texoma, Lake (Texas)	1,258,113	1,258,113	100	121,505	10	273,801	22	
Texoma, Lake (Texas & Oklahoma)	2,525,281	1,258,113	50	121,505	5	273,801	11	
*Pat Mayse Lake	113,683	113,683	100	0	0	28,786	25	
Kickapoo, Lake	86,345	24,199	28	-759	-1	-1,963	-2	
Arrowhead, Lake	230,359	46,922	20	932	0	-7,086	-3	
Bonham, Lake	11,027	11,027	100	85	1	2,223	20	
Crook, Lake	9,195	9,195	100	0	0	157	2	
Amon G Carter, Lake	19,266	11,508	60	642	3	2,898	15	
Ray Roberts, Lake	788,167	774,628	98	136,178	17	197,509	25	
Jim Chapman Lake (Cooper)	260,332	260,332	100	36,528	14	157,585	61	
Graham, Lake	45,288	17,335	38	169	0	-4,235	-9	
*Lost Creek Reservoir	11,950	7,757	65	399	3	-474	-4	
Bridgeport, Lake	366,236	142,260	39	2,263	1	-13,592	-4	
Lewisville Lake	563,228	563,228	100	105,325	19	186,395	33	
Lavon Lake	406,388	406,388	100	88,003	22	202,330	50	
Hubbard Creek Reservoir	318,067	38,099	12	-2,131	-1	-29,198	-9	
Possum Kingdom Lake	540,340	355,217	66	13,449	2	17,656	3	
*Mineral Wells, Lake	6,760	6,760	100	3,292	49	2,864	42	
Weatherford, Lake	17,812	12,721	71	2,164	12	1,346	8	
Eagle Mountain Lake	179,880	134,408	75	29,750	17	11,681	6	
Worth, Lake	33,495	25,429	76	2,592	8	3,024	9	
Grapevine Lake	164,703	152,837	93	43,272	26	47,512	29	
Ray Hubbard, Lake	452,040	389,612	86	52,360	12	84,684	19	
New Terrell City Lake	8,583	8,583	100	0	0	1,746	20	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Apr 2015 (acre-feet)	(%)	Change since end of Mar 2015 (acre-feet)	(%)	Change since end of Apr 2014 (acre-feet)	(%)
(North Central Continue)							
Palo Pinto, Lake	26,827	7,916	30	5,481	20	1,426	5
Benbrook Lake	85,648	72,431	85	8,783	10	3,910	5
Arlington, Lake	40,188	39,823	99	3,993	10	4,161	10
Joe Pool Lake	175,358	175,358	100	0	0	10,908	6
*Cisco, Lake	25,895	11,675	45	-170	-1	-2,288	-9
Leon, Lake	26,476	16,441	62	-44	-0	-3,973	-15
Granbury, Lake	128,046	118,130	92	42,476	33	52,081	41
Pat Cleburne, Lake	26,008	26,008	100	7,215	28	10,634	41
Waxahachie, Lake	10,780	10,780	100	275	3	1,602	15
Bardwell Lake	46,122	46,122	100			9,719	21
Proctor Lake	55,457	17,865	32	1,484	3	-5,882	-11
Whitney, Lake	553,344	427,768	77	53,392	10	100,141	18
Aquila Lake	44,460	44,460	100	0	0	13,092	29
Navarro Mills Lake	49,827	49,827	100	0	0	1,171	2
*Halbert, Lake	6,033	5,651	94	311	5	859	14
Richland-Chambers Reservoir	1,087,839	925,323	85	88,975	8	153,142	14
*Brownwood, Lake	128,839	65,783	51	3,759	3	-2,118	-2
Waco, Lake	189,567	189,567	100	6,171	3	21,977	12
Limestone, Lake	208,014	208,014	100	0	0	3,813	2
Belton Lake	435,225	313,877	72	9,027	2	-9,178	-2
Stillhouse Hollow Lake	227,771	154,460	68	2,347	1	-7,784	-3
Georgetown, Lake	36,823	23,447	64	-1,509	-4	2,722	7
Granger Lake	50,779	50,779	100	0	0	899	2
Tawakoni, Lake	871,685	737,649	85	93,867	11	188,900	22
Mountain Creek, Lake	22,850	22,850	100	0	0	0	0
Squaw Creek, Lake	151,250	151,250	100	4,073	3	2,266	1
TOTAL	10,647,870	8,716,312	82	967,740	9	1,721,489	16
EAST							
Wright Patman Lake	310,382	310,382	100	187,789	61	29,159	9
*Sulphur Springs, Lake	17,747	17,747	100	0	0	0	0
Cypress Springs, Lake	66,756	66,756	100	0	0	0	0
Bob Sandlin, Lake	190,822	190,822	100	0	0	14,300	7
Caddo, Lake	29,898	29,898	100	0	0	0	0
Martin, Lake	75,116	74,832	100	-284	-0	895	1
Monticello, Lake	34,740	34,638	100	-102	-0	-102	-0
Fork Reservoir, Lake	605,061	600,040	99	70,049	12	83,263	14
O the Pines, Lake	241,363	241,363	100	0	0	0	0
Cedar Creek Reservoir in Trinity	644,686	644,686	100	654	0	124,703	19
Athens, Lake	29,435	29,435	100	0	0	0	0
Palestine, Lake	373,199	373,199	100	0	0	0	0
Tyler, Lake	73,161	73,161	100	0	0	0	0
Murvaul, Lake	38,285	38,285	100	0	0	0	0
Jacksonville, Lake	25,670	25,670	100	0	0	0	0
Nacogdoches, Lake	39,522	39,522	100	0	0	974	2
Houston County Lake	17,113	17,113	100	0	0	13	0
Sam Rayburn Reservoir	2,857,077	2,857,077	100	0	0	207,206	7
Toledo Bend Reservoir (Texas)	2,245,752	2,245,752	100	0	0	105,979	5
Toledo Bend Reservoir (TX & LA)	4,472,900	2,245,752	50	0	0	105,979	2
*Livingston, Lake	1,785,348	1,785,348	100	0	0	0	0
B A Steinhagen Lake	66,961	57,693	86	2,956	4	-4,597	-7
Conroe, Lake	416,177	416,177	100	0	0	9,851	2
TOTAL	10,184,271	10,169,596	100	261,062	3	571,644	6

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Apr 2015 (acre-feet)	(%)	Change since end of Mar 2015 (acre-feet)	(%)	Change since end of Apr 2014 (acre-feet)	(%)
TRANS-PECOS							
**Red Bluff Reservoir	151,110	121,574	80	-8,631	-6	53,329	35
TOTAL	151,110	121,574	80	-8,631	-6	53,329	35
EDWARDS PLATEAU							
Oak Creek Reservoir	39,210	5,848	15	-17	-0	-1,401	-4
E V Spence Reservoir	517,272	15,167	3	5,517	1	2,838	1
O C Fisher Lake	119,445	1,297	1	15	0	548	0
*O H Ivie Reservoir	554,340	72,270	13	-3,513	-1	8,916	2
Twin Buttes Reservoir	182,454	5,982	3	-436	-0	no data	
Brady Creek Reservoir	28,808	7,402	26	-283	-1	-1,106	-4
Buchanan, Lake	860,607	316,880	37	6,032	1	5,420	1
Inks, Lake	13,962	13,066	94	226	2	84	1
Lyndon B Johnson, Lake	115,056	110,757	96	-245	-0	122	0
*Amistad Reservoir (Texas)	1,840,849	1,153,465	63	-1,313	-0	320,859	17
*Amistad Reservoir (TX & Mexico)	3,275,532	1,153,465	35	-1,313	-0	320,859	10
TOTAL	4,272,003	1,702,134	40	5,983	0	336,280	8
SOUTH CENTRAL							
Travis, Lake	1,113,348	413,527	37	12,569	1	29,013	3
*Austin, Lake	23,972	22,726	95	-650	-3	-123	-1
Somerville Lake	147,104	147,104	100	0	0	27,657	19
Canyon Lake	378,781	302,551	80	7,793	2	-6,992	-2
Medina Lake	254,823	10,673	4	2,366	1	3,331	1
*Coletto Creek Reservoir	31,040	31,040	100	0	0	9,199	30
TOTAL	1,949,068	927,621	48	22,078	1	62,085	3
UPPER COAST							
Houston, Lake	120,686	120,686	100	0	0	0	0
Texana, Lake	159,566	159,106	100	-460	-0	31,045	19
TOTAL	280,252	279,792	100	-460	-0	31,045	11
SOUTHERN							
Choke Canyon Reservoir	695,262	181,965	26	7,642	1	-40,097	-6
Corpus Christi, Lake	256,961	192,013	75	41,419	16	-12,396	-5
*Falcon Reservoir (Texas)	1,551,007	618,783	40	45,409	3	74,125	5
*Falcon Reservoir (TX & Mexico)	2,646,817	618,783	23	45,409	2	74,125	3
TOTAL	2,503,230	992,761	40	94,470	4	21,632	1
STATE TOTAL	31,551,509	23,244,037	74	1,352,476	4	2,933,268	9
* Conservation volume is used as conservation storage capacity because the dead storage is unknown.							
** Nov 11/27 2013 – 12/02 2014 data were not available. End of Nov 2013 storage was estimated.							
Elephant Butte Reservoir	1,973,358	392,696	20	25,384	1	29,146	1

Note:

Conservation storage capacity is the space available to store water above the lowest outlet and below the top of conservation pool, or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included is any water in flood control storage (above the top of conservation pool or normal maximum operating level), or any water in the dead storage. Conservation storage percentage is based on the conservation storage capacity of the reservoir and the conservation storage in the reservoir on date shown. Percent change is given by 100*(current conservation storage - past conservation storage)/conservation storage capacity. Figures shown are for the Texas share of conservation storage in all reservoirs.

APRIL RESERVOIR CONDITIONS

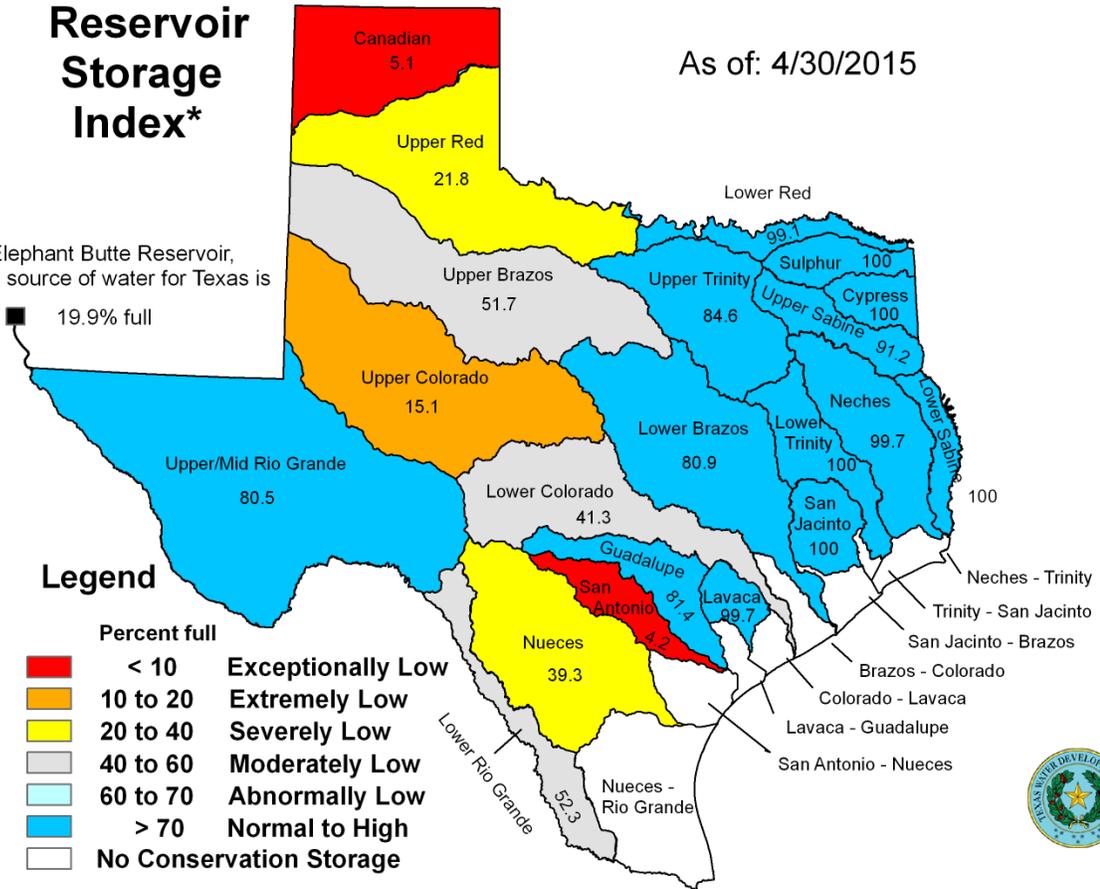
As of: 4/30/2015

Reservoir Storage Index*

Elephant Butte Reservoir, a source of water for Texas is 19.9% full

Legend

Percent full	Category
< 10	Exceptionally Low
10 to 20	Extremely Low
20 to 40	Severely Low
40 to 60	Moderately Low
60 to 70	Abnormally Low
> 70	Normal to High
No Conservation Storage	

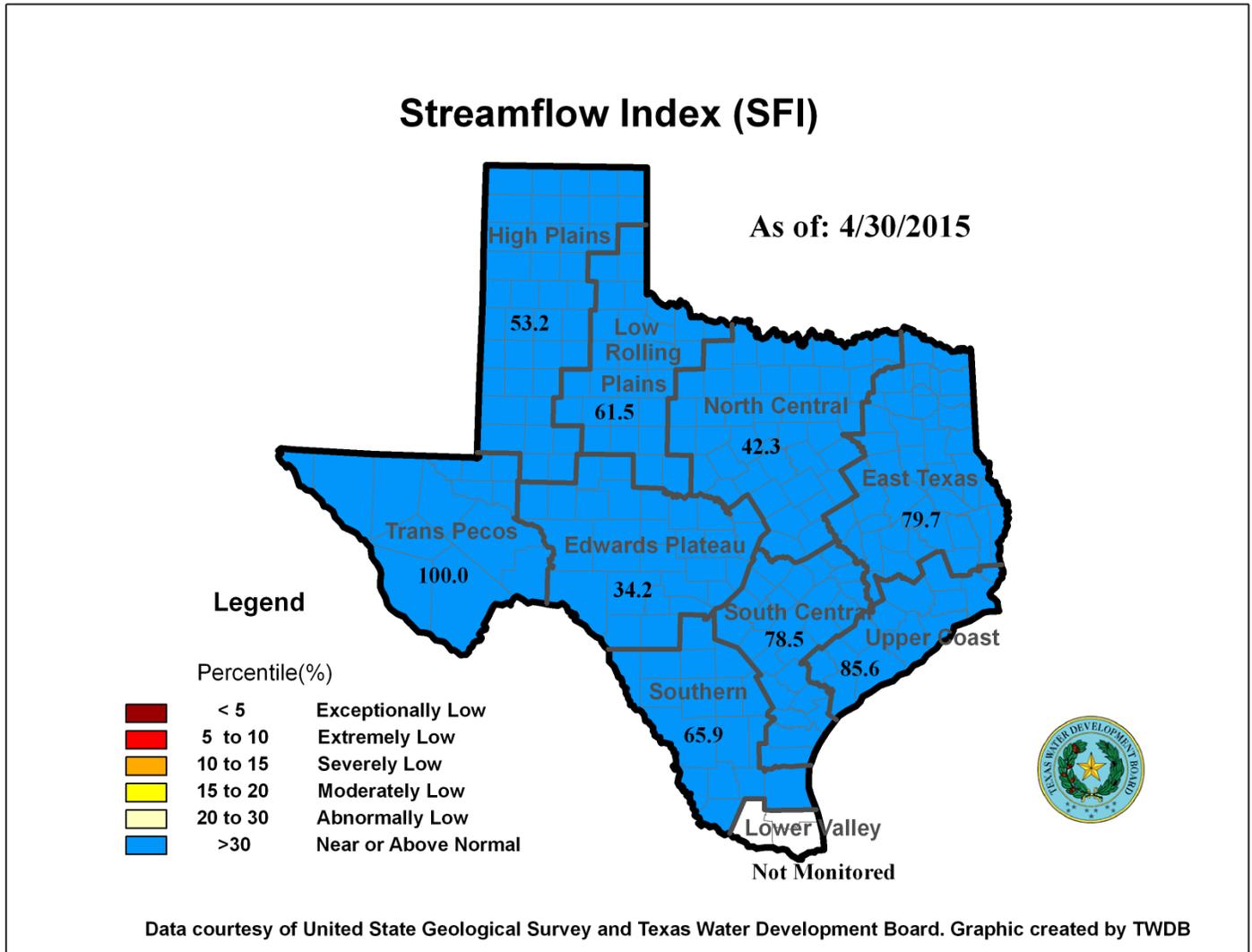


*Percent of combined conservation storage capacity of 114 major water supply reservoirs by sub-basin (dead pools are excluded)

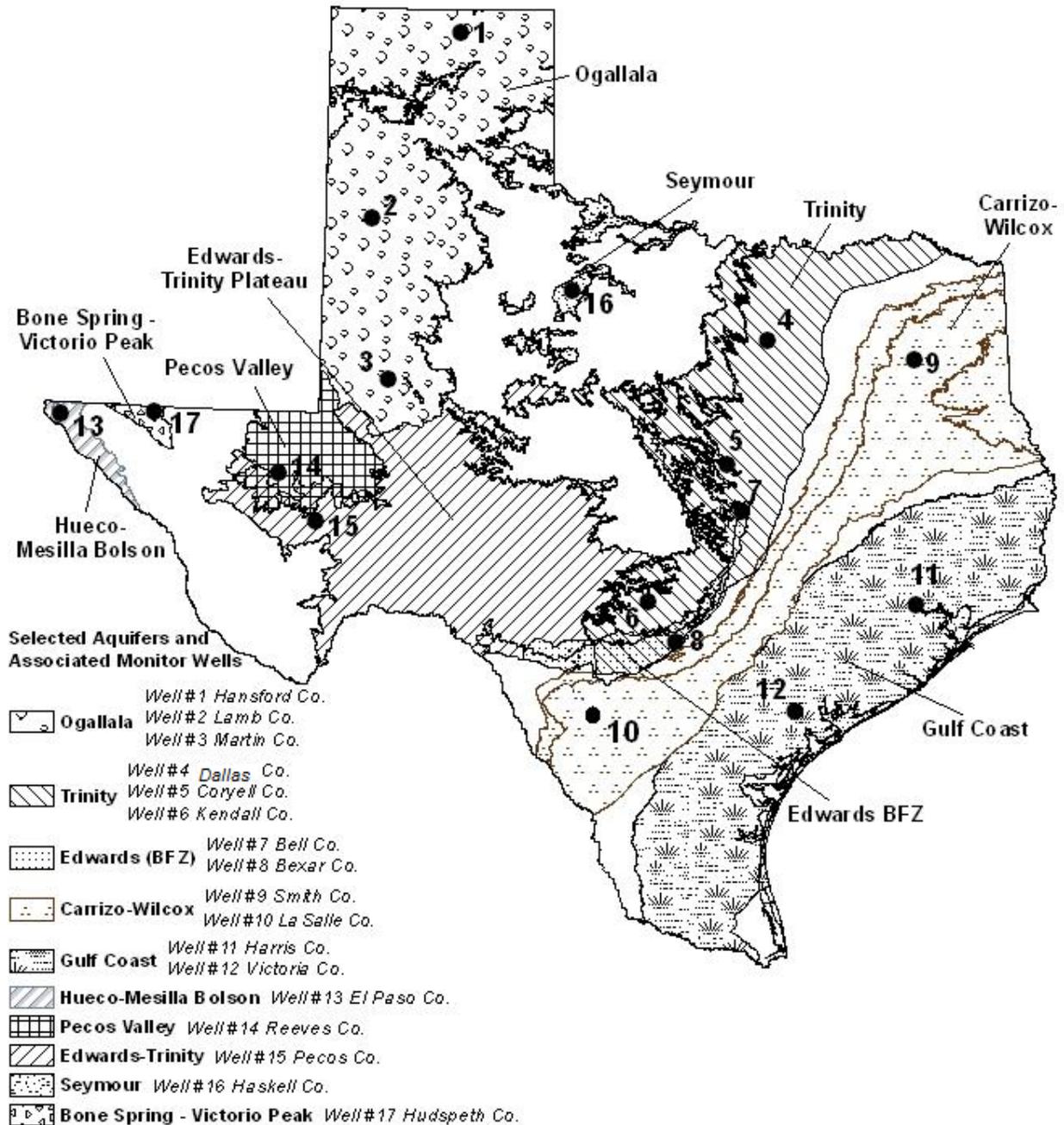
APRIL STREAMFLOW CONDITIONS

Of 29 reporting index stations monitored this month, computed 30-day mean flows were exceptionally low (<5%) at 0 station, extremely low (5-10%) at 2 stations, severely low (10-15%) at 0 station, moderately low (15-20%) at 1 station, abnormally low (20-30%) at 1 station, and near normal (30% - 70%) at the remaining 25 stations. Compared to last month, flows have increased at 16 index stations and decreased at 11 stations.

On a regional basis, flows in this month at index stations were near or above normal in all regions. Streamflow in the Lower Valley region is not monitored.



APRIL 2015 GROUNDWATER LEVELS IN OBSERVATION WELLS



April, 2015

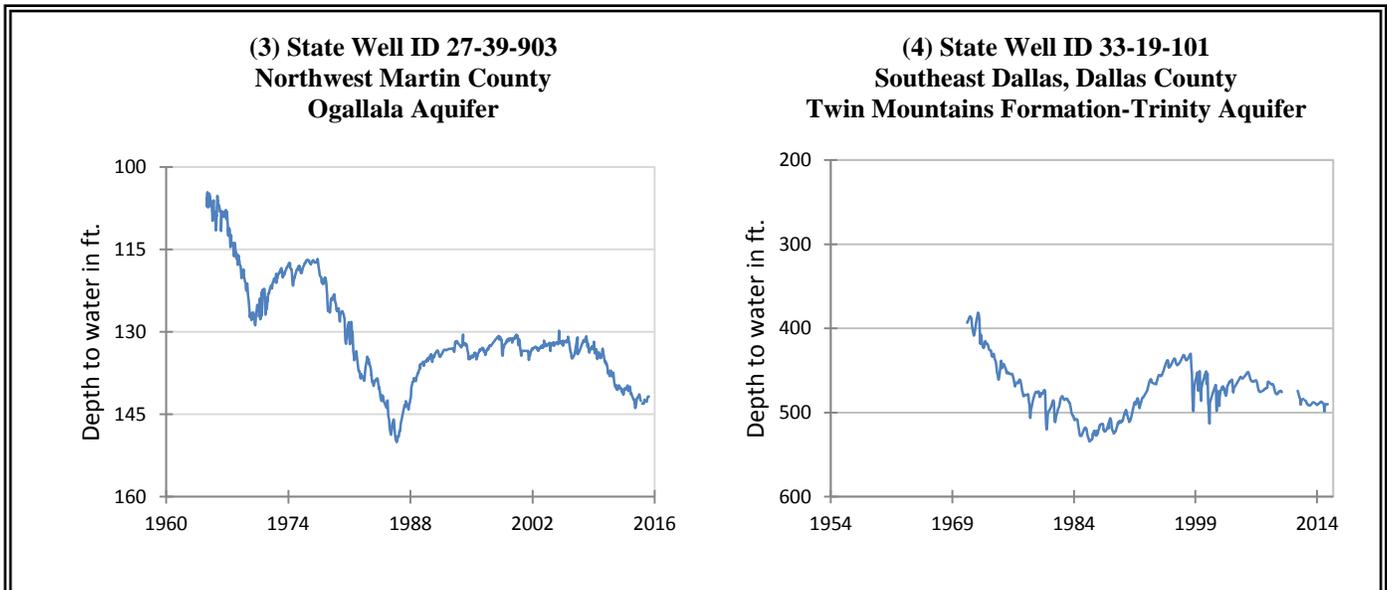
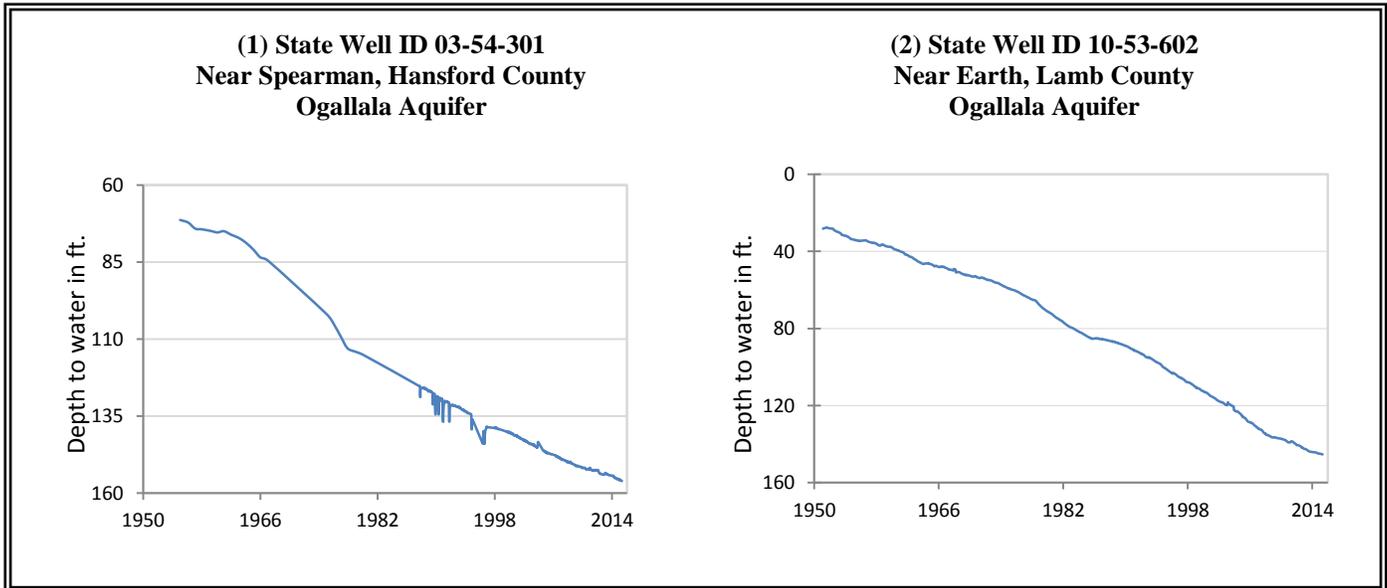
Water level measurements were available for all of the seventeen key monitoring wells in the state. Water levels rose in seven of the monitoring wells since the beginning of April, ranging from 0.19 feet in the Bell County Edwards Aquifer well to 3.12 feet in the Kendall County Trinity Aquifer well. Water levels declined in ten monitoring wells, ranging from 0.02 feet in the Dallas County Trinity Aquifer well to 15.98 feet in the La Salle County Carrizo-Wilcox Aquifer well. The J-17 well in San Antonio recorded a water level of 79.1 feet below land surface or 651.9 feet above mean sea level. This water level is 11.9 feet above the Stage III critical management level in that segment of the Edwards Aquifer. Stage III restrictions are declared by the EAA when the ten-day average falls below the 640-foot elevation, or 91 feet below land surface.

*IDs used in this publication on the aquifer map to indicate the monitoring well location (IDs 1 - 17) are different than the TWDB's six- or seven-digit state well "identification" number.

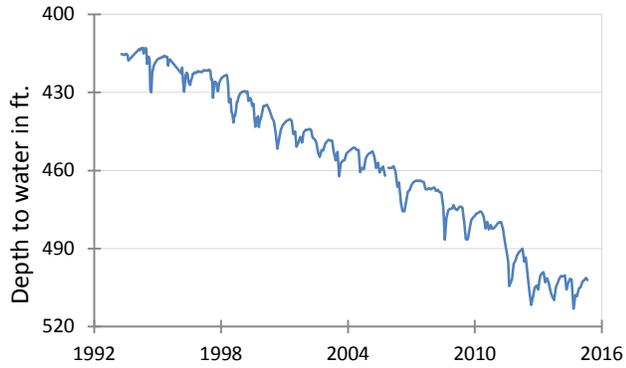
Monitoring Well	April	March	month change	year change	historical change	first measured
(1) Hansford 0354301	156.09	155.86	-0.23	-1.01	-85.97	1951
(2) Lamb 1053602	145.34	145.27	-0.07	-1.05	-117.19	1951
(3) Martin 2739903	141.8	141.75	-0.05	0.4	-36.91	1964
(4) Dallas 3319101	490.2	490.18	-0.02	-1.68	-268.2	1954
(5) Coryell 4035404	502.17	501.28	-0.89	3.58	-210.17	1955
(6) Kendall 6802609	121.62	124.74	3.12	14.65	-61.62	1975
(7) Bell 5804816	123.57	123.76	0.19	2.05	-0.44	2008
(8) Bexar 6837203	79.1	84.8	5.7	18.6	-32.46	1932
(9) Smith 3430907	432.92	433.72	0.8	4.42	-66.92	1987
(10) La Salle 7738103	503.58	487.6	-15.98	-14.4	-250.51	2003
(11) Harris 6514409	186.93	187.61	0.68	3.2	-51.43*	1956
(12) Victoria 8017502	36.28	37.17	0.89	-0.82	-2.28	1958
(13) El Paso 4913301	295.96	296.3	0.34	0.08	-64.06	1967
(14) Reeves 4644501	159.85	155.39	-4.46	-4.91	-67.76	1952
(15) Pecos 5216802	196.73	188.08	-8.65	15.7	50.15	1976
(16) Haskell 2135748	48.58	48.47	-0.11	0.11	-7.25	2002
(17) Hudspeth 4807516	142.29	138.1	-4.19	-1.51	-38.37	1964

*change since the original measurement of 135.5 feet below land surface in 1947 (measurement not shown on the hydrograph)

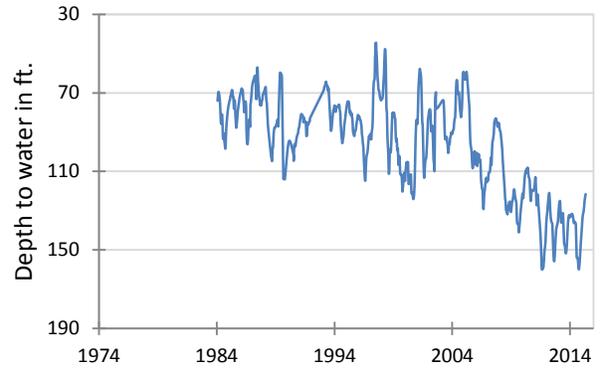
APRIL GROUNDWATER LEVELS IN OBSERVATION WELLS



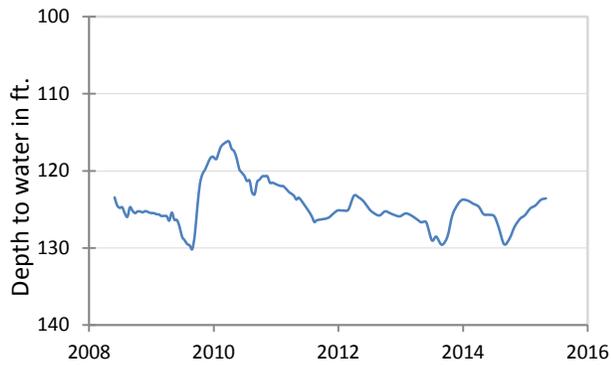
**(5) State Well ID 40-35-404
Gatesville, Coryell County
Hosston Formation-Trinity Aquifer**



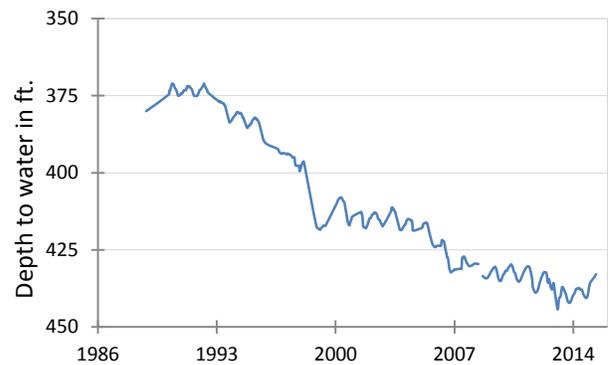
**(6) State Well ID 68-02-609
Waring, Kendall County
Cow Creek Formation-Trinity Aquifer**



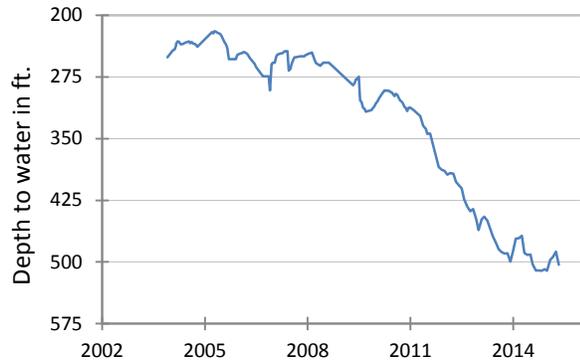
**(7) State Well ID 58-04-816
Near Salado, Bell County
Edwards (BFZ) Aquifer**



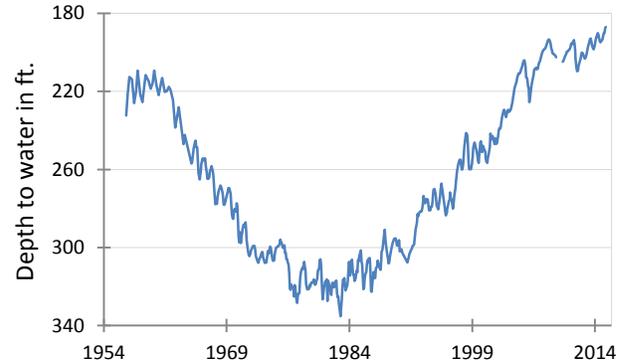
**(9) State Well ID 34-30-907
Red Springs, Smith County
Carrizo-Wilcox Aquifer**



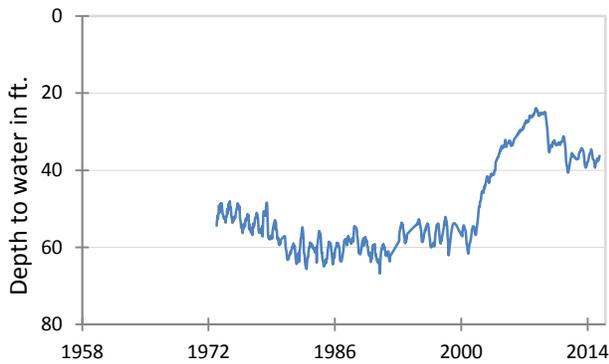
**(10) State Well ID 77-38-103
Near Cotulla, La Salle County
Carrizo-Wilcox Aquifer**



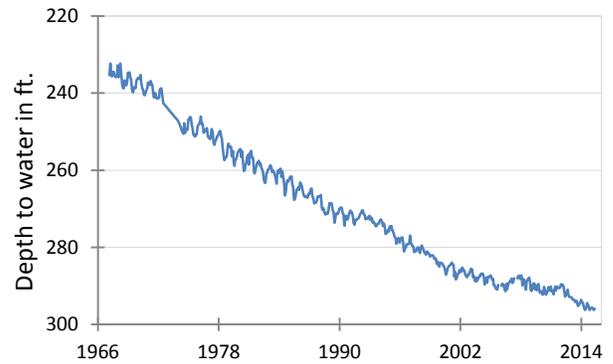
**(11) State Well ID 65-14-409
Alief, Harris County
Evangeline Formation-Gulf Coast Aquifer**



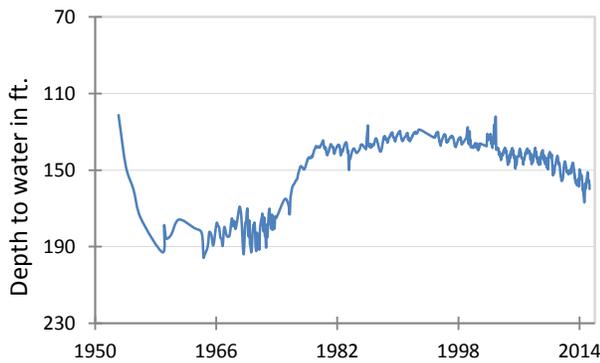
(12) State Well ID 80-17-502
Near Bloomington, Victoria County
Lissie Formation-Gulf Coast Aquifer



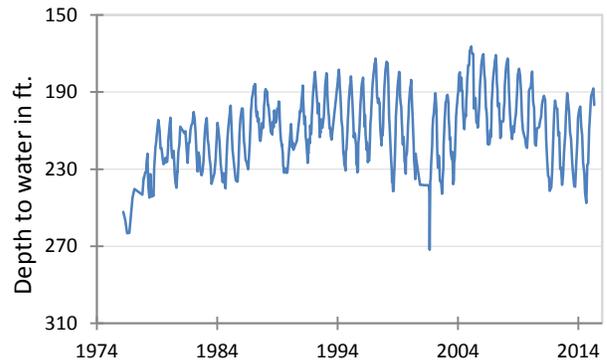
(13) State Well ID 49-13-301
El Paso, El Paso County
Hueco-Mesilla Bolson Aquifer



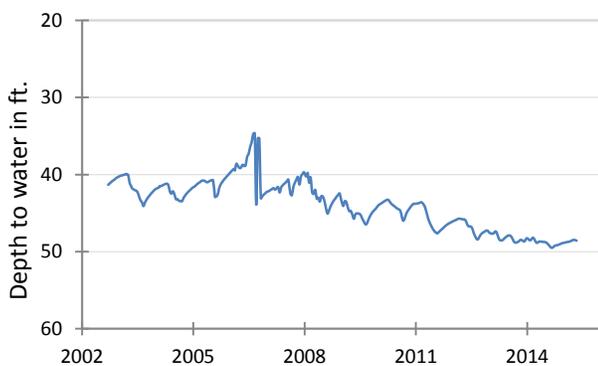
(14) State Well ID 46-44-501
Near Pecos, Reeves County
Pecos Valley Aquifer



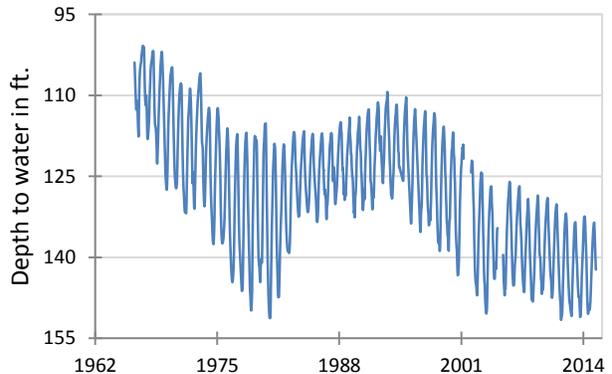
(15) State Well ID 52-16-802
Fort Stockton, Pecos County
Edwards-Trinity (Plateau) Aquifer



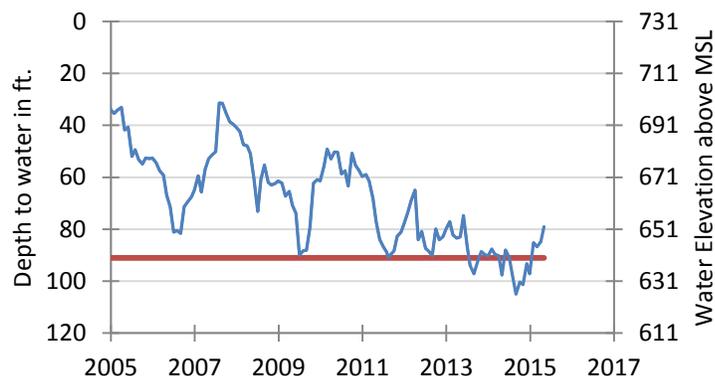
(16) State Well ID 21-35-748
Near O'Brien, Haskell County
Seymour Aquifer



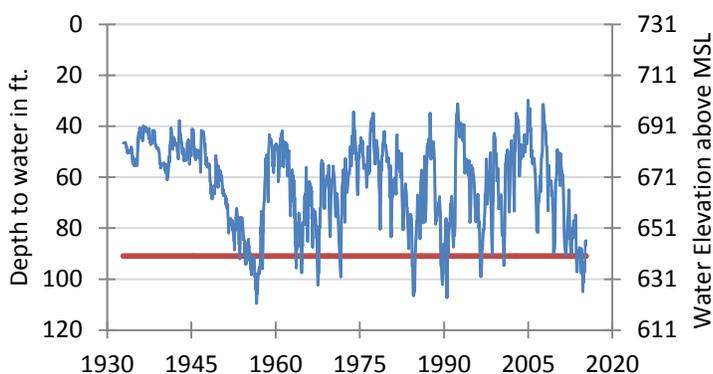
(17) State Well ID 48-07-516
Dell City, Hudspeth County
Bone Spring - Victorio Peak Aquifer



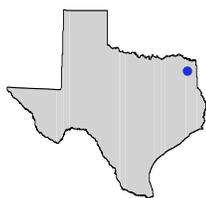
**(8) State Well ID 68-37-203 (J-17)
In San Antonio, Bexar County
Edwards (BFZ) Aquifer**



The late April water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above mean sea level, was 79.1 feet below land surface, or 651.9 feet above mean sea level. This was 5.7 feet above last month's measurement, 18.6 feet above last year's measurement, and 32.46 feet below the initial measurement recorded in 1932.



***** Water levels below the red line indicate Edwards Aquifer Authority Stage III drought restrictions. *****



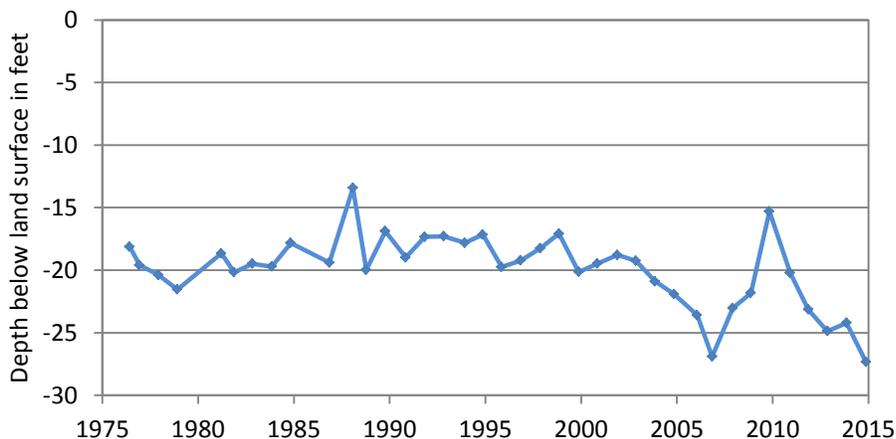
HYDROGRAPH OF THE MONTH

Each month this space features a new hydrograph (marked with the • symbol on the map) depicting different aquifers and different conditions in Texas.

Queen City Aquifer

The Queen City Aquifer is a minor but widespread aquifer that stretches across the Texas upper coastal plain. Water is stored in the sand, loosely cemented sandstone, and interbedded clay layers of the Queen City Formation that reaches 2,000 feet in thickness in South Texas. Average freshwater saturation is about 140 feet and the water is generally fresh, with an average concentration of total dissolved solids of about 300 milligrams per liter in the recharge zone and about 750 milligrams per liter deeper in the aquifer. Although salinity decreases from south to north, areas of excessive iron concentration and high acidity occur in the northeast. The aquifer is primarily used for livestock and domestic purposes, with significant municipal and industrial use in northeast Texas.

Well # 1653602, 47 feet deep
unused, northern Cass County



Depth-to-water in this well has been measured by the TWDB for 38 years. Water levels had remained relatively unchanged throughout the period of record until recently, when the water level increased to the second highest level of 15.3 feet below land surface in 2009. Since then, a gradual decline has led to the lowest measurement in the historical data of 27.33 feet below land surface in 2014.

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